

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Withdrawn): A process for the production of a plastic[[s]] article with a microstructured surface via production of a composite comprised of a backing layer comprised of a thermoplastic or thermoelastic with one or more structure layers,

wherein the structure layer(s) is/are comprised of from 1 to 100% by weight of a polymethacrylate moulding composition which comprises from 80 to 100% by weight of free-radical-polymerized methyl methacrylate units and from 0 to 20% by weight of other comonomers capable of free-radical polymerization and which has an average (weight-average) molar mass M_w of from 30 000 to 70 000 g/mol,

and further wherein the dimensions of geometries of the microstructured surface are up to 200 μm ,

and, where appropriate, is present in a mixture with up to 99% by weight of a polymethacrylate moulding composition which is comprised of from 80 to 100% by weight of free-radical-polymerized methyl methacrylate units and from 0 to 20% by weight of other comonomers capable of free-radical polymerization and which has an average (weight-average) molar mass M_w of from 90 000 to 200 000 g/mol

and the structure layer(s) obtain microstructuring via known structuring processes, after production of the composite.

Claim 2 (Withdrawn): The process according to Claim 1, wherein the plastic of the structure layer has a viscosity number ($\eta_{sp/c}$) of from 25 to 50 ml/g, measured in chloroform to ISO 1628 Part 6.

Claim 3 (Withdrawn): The process according to Claim 1, wherein the composite of backing layer and structure layer is generated via coextrusion, application of the structure layer to the backing layer by lamination, or application of the structure layer to the backing layer by lacquering.

Claim 4 (Withdrawn): The process according to Claim 1, wherein the polymethyl methacrylate moulding compositions of the structure layer comprise, as other comonomers, C₁-C₄-alkyl (meth)acrylates.

Claim 5 (Withdrawn): The process according to Claim 1, wherein the thickness of the structure layer is in the range from 1 to 1000 μm .

Claim 6 (Withdrawn): The process according to Claim 1, wherein the dimensions of the geometries of the microstructures are in the range from 1 to 1000 μm .

Claim 7 (Withdrawn): The process according to Claim 1, wherein the height:width aspect ratios of the microstructures are from 0.3 to 10.

Claim 8 (Withdrawn): The process according to Claim 1, wherein, after the discharge of a coextrudate comprised of the melts of the backing layer and of the structure layer from the extrusion die of an extrusion system, the microstructures are embossed into the structure layer(s) in the molten state in an attached polishing-roller stack, by means of one or more embossing rollers.

Claim 9 (Withdrawn): The process according to Claim 1, wherein the microstructures are transferred via subsequent hot embossing into the previously solidified structure layer(s).

Claim 10 (Withdrawn): The process according to Claim 1, wherein the backing layer is comprised of a polymethyl methacrylate plastic or of a plastic compatible with polymethyl methacrylate.

Claim 11 (Withdrawn): The process according to Claim 1, wherein the backing layer is comprised of a plastic which is incompatible with, or has poor compatibility with, polymethyl methacrylate, but is equipped with (an) intermediate layer(s) which has been coextruded, laminated, or applied by lacquering, and which promotes adhesion.

Claim 12 (Withdrawn): The process according to Claim 1, wherein the backing layer is comprised of a plastic which is incompatible with, or has poor compatibility with, polymethyl methacrylate, but is not equipped with any intermediate layer which has been coextruded, laminated, or applied by lacquering, and which promotes adhesion, and, after the microstructure has been applied, the composite is separated in order to obtain the microstructured structure layer alone.

Claim 13 (Currently Amended): A plastic[[s]] article which can be produced by the following process as claimed in Claim 1,

wherein the process for the production of the plastic article with a microstructured surface via production of a composite comprised of a backing layer comprised of a thermoplastic or thermoelastic with one or more structure layers,

wherein the structure layer(s) is/are comprised of from 1 to 100% by weight of a polymethacrylate moulding composition which comprises from 80 to 100% by weight of free-radical-polymerized methyl methacrylate units and from 0 to 20% by weight of other comonomers capable of free-radical polymerization and which has an average (weight-average) molar mass M_w of from 30 000 to 70 000 g/mol,

and further wherein the dimensions of geometries of the microstructured surface are up to 200 μm ,

and, where appropriate, is present in a mixture with up to 99% by weight of a polymethacrylate moulding composition which is comprised of from 80 to 100% by weight of free-radical-polymerized methyl methacrylate units and from 0 to 20% by weight of other comonomers capable of free-radical polymerization and which has an average (weight-average) molar mass M_w of from 90 000 to 200 000 g/mol,

and the structure layer(s) obtain microstructuring via known structuring processes, after production of the composite.

Claim 14 (Previously Amended) : The plastic[[s]] article according to Claim 13, wherein said plastic[[s]] article is a composite comprised of a backing layer and of one or more structure layers with microstructured surfaces.

Claim 15 (Previously Amended) : The plastic[[s]] article according to Claim 13, wherein said plastic[[s]] article is comprised of a structure layer with a microstructured surface and the backing layer is comprised of a plastic which is incompatible with, or has poor compatibility with, polymethyl methacrylate, but is not equipped with any intermediate layer which has been coextruded, laminated, or applied by lacquering, and which promotes

adhesion, and, after the microstructure has been applied, the composite is separated in order to obtain the microstructured structure layer alone.

Claim 16 (Previously Amended) : The plastic[[s]] article according to Claim 13, wherein said plastic[[s]] article is a simple sheet, a corrugated sheet, a panel having cavities, or a tube or rod, the shape of which is angular or round, elliptical or oval.

Claim 17 (Canceled)

Claim 18 (Currently Amended): A method for modifying a surface of an object, said method comprising:

placing said plastic[[s]] article according to Claim 13

on a surface of a vehicle where air water flows over said surface of said vehicle to reduce friction; or

on a line or a container where fluids flow at high speeds to reduce friction; or

on a container and mixing one or more fluids in said container to control mixing of said one or more fluids; or

on a surface of a first article to produce a surface having a modified acoustic property;

or

on a surface of a second article to produce a surface having reduced adhesion of contaminants; or

on a surface of a third article to produce antimicrobial surface; or

on a surface of a fourth article to produce a surface which directs light, conducts light, refracts light, diffusely scatters light, reflects light, does not reflect light, or performs a mixture of functions thereof.

Claim 19 (New): A plastic article which can be produced by the process as claimed in Claim 13, wherein the height:width aspect ratios of the microstructures are from 0.3 to 10.